



# Patent [19]

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## [54] AIR CONDITIONER

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## [57] ABSTRACT

**PURPOSE:** To provide an air conditioner having sufficient disinfection power and sterilizing power with a simple structure by arranging a photocatalyst so as to receive light before and after a filter, passing the air sucked from an air suction port of the air conditioner body through the photocatalyst and blowing the air out of a blow-off port.

**CONSTITUTION:** This air conditioner is constituted by arranging the photocatalyst 7 in at least either before or after the filter 6 installed in an ordinary air conditioner body 1 and is so formed as to irradiate this catalyst 7 with the light, to pass the air sucked from the air suction port 2 through the photocatalyst 7 and to blow the air out of the blow-off port into a room. The photocatalyst 7 is any among a titanium oxide, cadmium selenide or strontium titanate. High oxidation power and reduction power are generated on the surface thereof and the ability to decompose bacteria is exhibited if these photocatalysts are irradiated with light. Then, the disinfection or propagation of the bacteria is suppressed with the simple structure and more particularly, the virus bacteria are suppressed as well.

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